Current U.S. Class:	700/25
Current CPC Class:	A01D 34/008 (20130101); G05D 1/0255 (20130101 G05D 1/0265 (20130101); G05D 1/0225 (20130101); G0 G05D 2201/0208 (20130101); G05D 22 901/09 (20130101
Current International Class:	
Field of Search:	:700/245.250.253-255.257-259.261 :701/23.25-27 :318/ :56/10.1.10.2A

References Cited [Referenced By]

U.S. Patent Documents

2751030	June 1956	Null
3128840	April 1964	Barrett
3385041	May 1968	Douglas
3457575	July 1969	Bienek
3550714	December 1970	Bellinger
3674316	July 1972	De Brey
3924389	December 1975	Kita
3937174	February 1976	Haaga

Figure 1

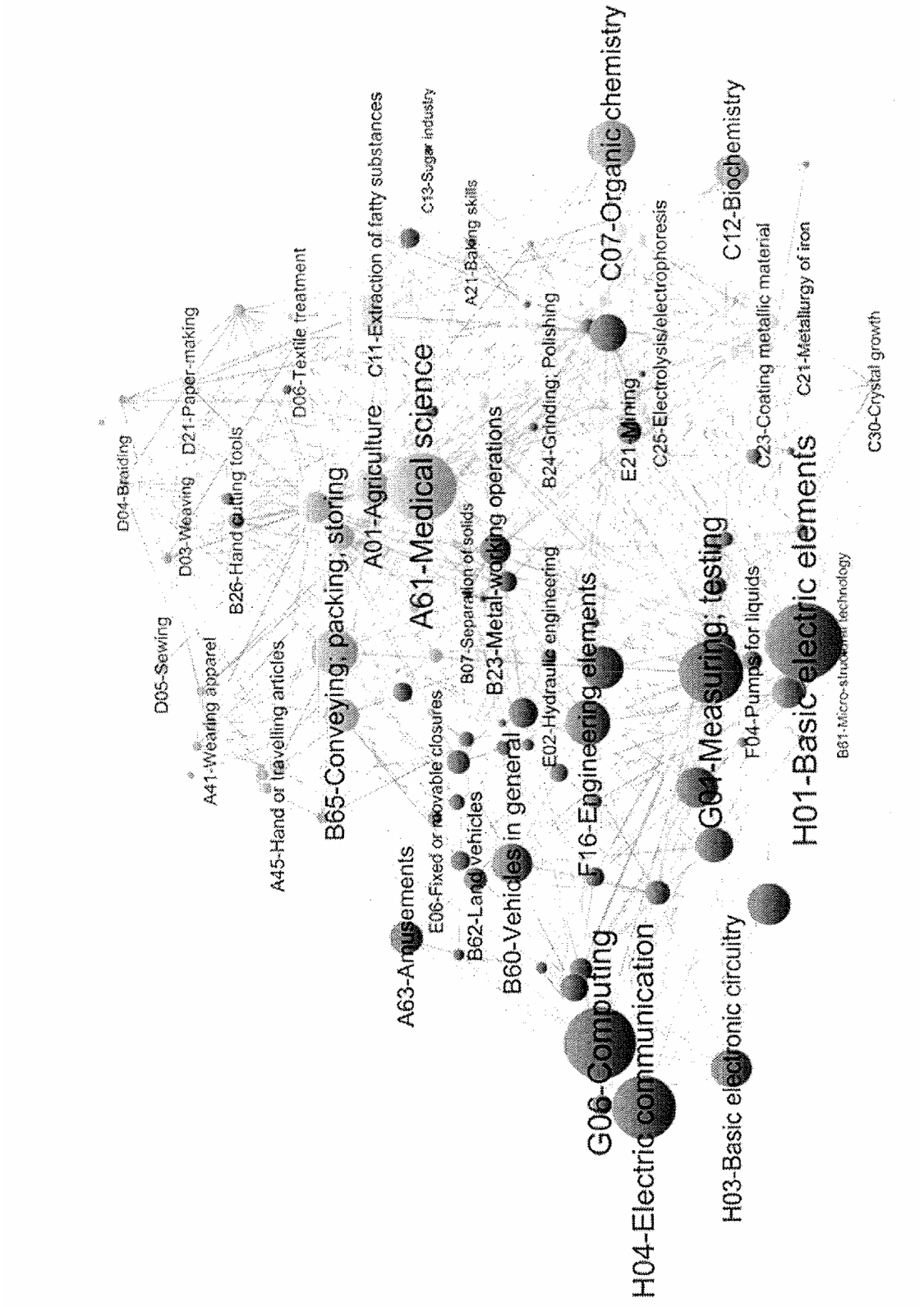

D04-Braiding
D05-Sewing
D03-Weaving
D21-Paper-making
A41-Wearing apparel
B26-Hand cutting tools
D06-Textile treatment
A45-Hand or travelling articles
B65-Conveying; packing; storing
A01-Agriculture
C11-Extraction of fatty substances
C13-Sugar industry
A61-Medical science
A21-Baking skills
B07-Separation of solids
B23-Metal-working operations
B24-Grinding; Polishing
C07-Organic chemistry
A63-Amusements
E06-Fixed or movable closures
B62-Land vehicles
B60-Vehicles in general
E02-Hydraulic engineering
F16-Engineering elements
E21-Mining
C25-Electrolysis/electrophoresis
G06-Computing
H04-Electric communication
G01-Measuring; testing
C12-Biochemistry
H03-Basic electronic circuitry
F04-Pumps for liquids
C23-Coating metallic material
H01-Basic electric elements
C21-Metallurgy of iron
B81-Micro-structural technology
C30-Crystal growth

Figure 2

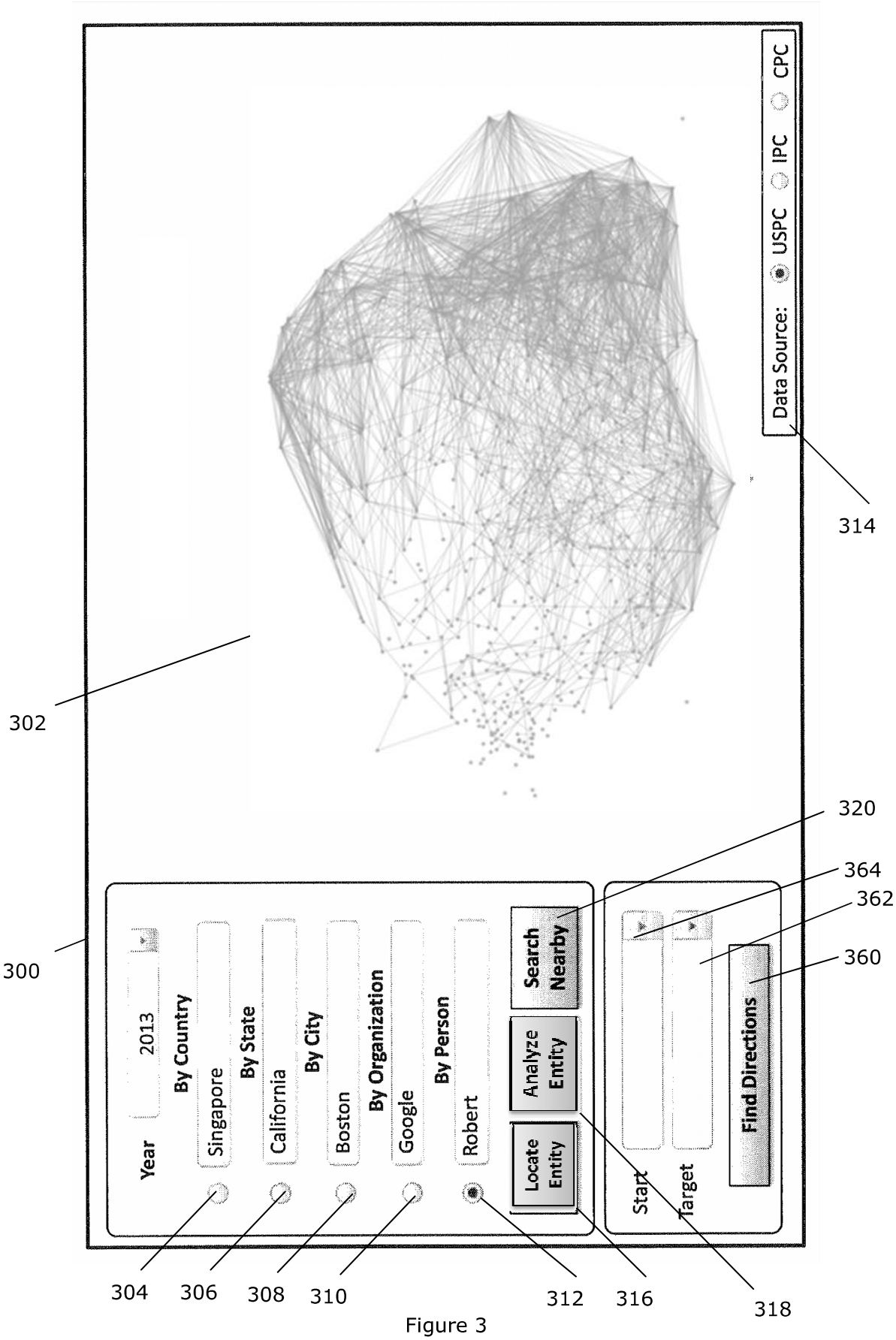

Data Source:
USPC
IPC
CPC
314
302
300
320
364
362
360
Year
2013
By Country
Singapore
By State
California
By City
Boston
By Organization
Google
By Person
Robert
Search Nearby
Analyze Entity
Locate Entity
Start
Target
Find Directions
304
306
308
310
312
316
318

Figure 3

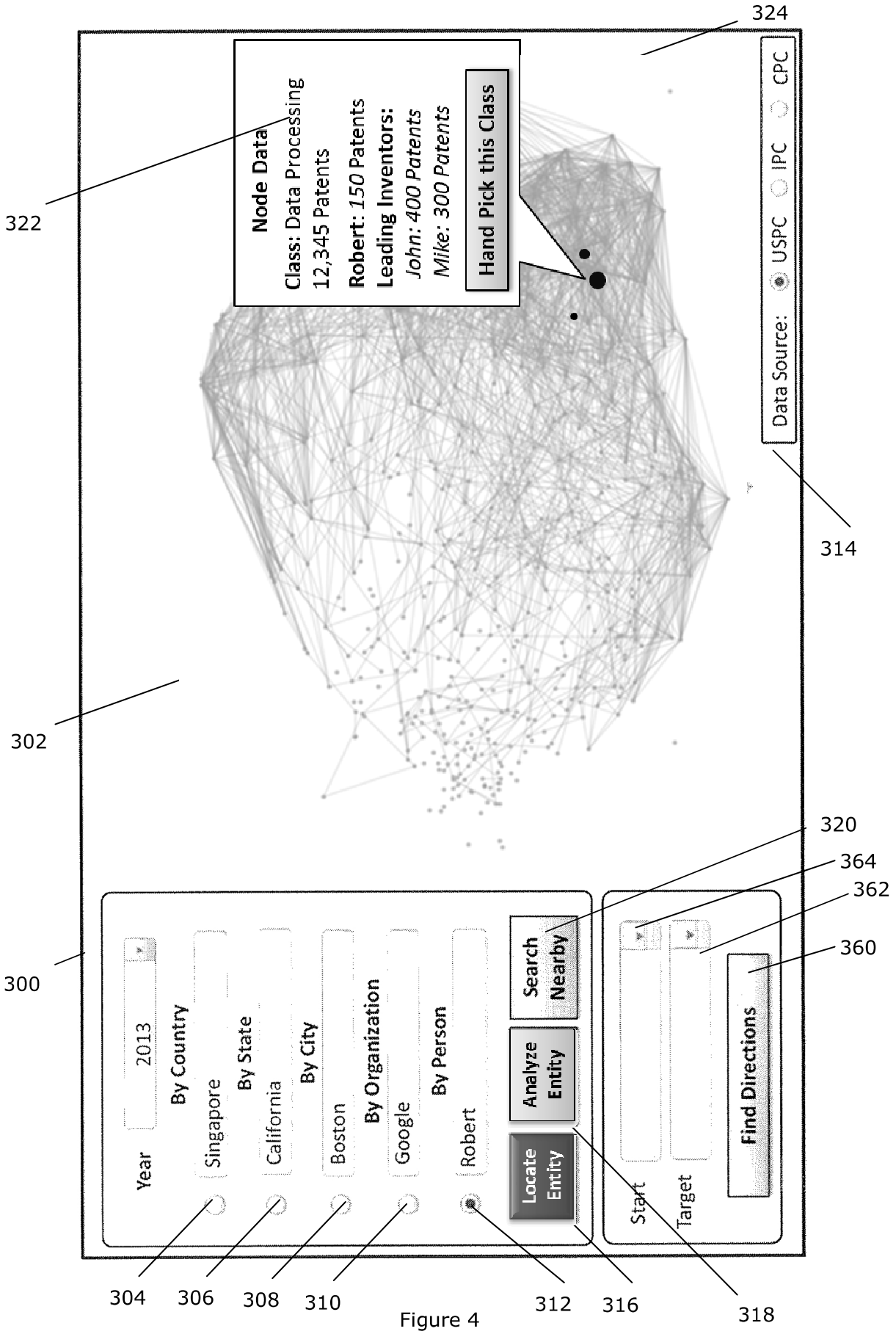

324
322
Node Data
Class: Data Processing
12,345 Patents
Robert: 150 Patents
Leading Inventors:
John: 400 Patents
Mike: 300 Patents
Hand Pick this Class
Data Source:
USPC
IPC
CPC
314
302
320
364
362
360
300
Year
2013
By Country
Singapore
By State
California
By City
Boston
By Organization
Google
By Person
Robert
Search Nearby
Analyze Entity
Locate Entity
Start
Target
Find Directions
304
306
308
310
312
316
318

Figure 4

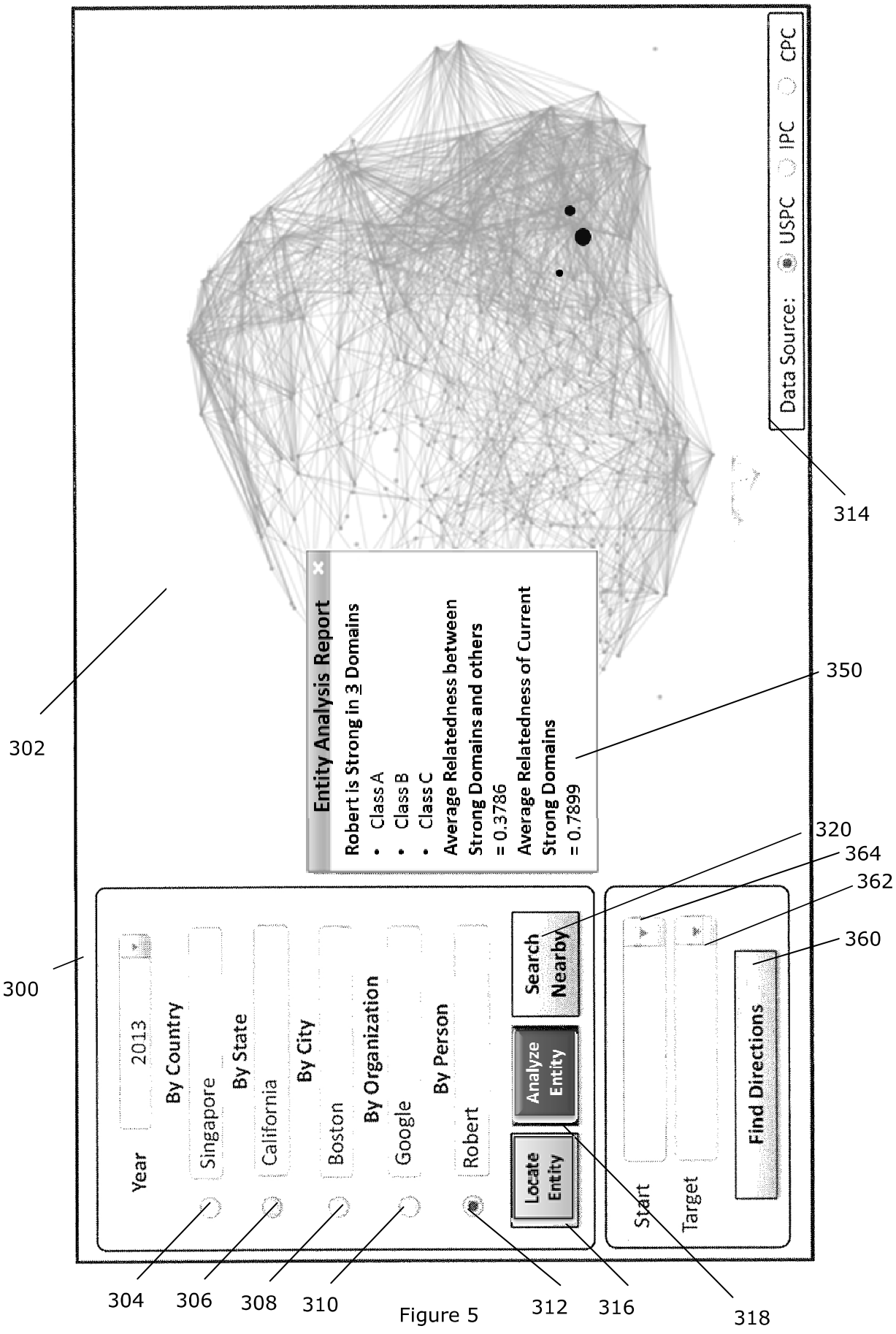

Data Source: USPC IPC CPC
314
Entity Analysis Report
Robert is Strong in 3 Domains
• Class A
• Class B
• Class C
Average Relatedness between Strong Domains and others = 0.3786
Average Relatedness of Current Strong Domains = 0.7899
350
302
320
364
362
360
300
Year 2013
By Country
Singapore
By State
California
By City
Boston
By Organization
Google
By Person
Robert
Search Nearby
Analyze Entity
Locate Entity
Start
Target
Find Directions
304
306
308
310
312
316
318

Figure 5

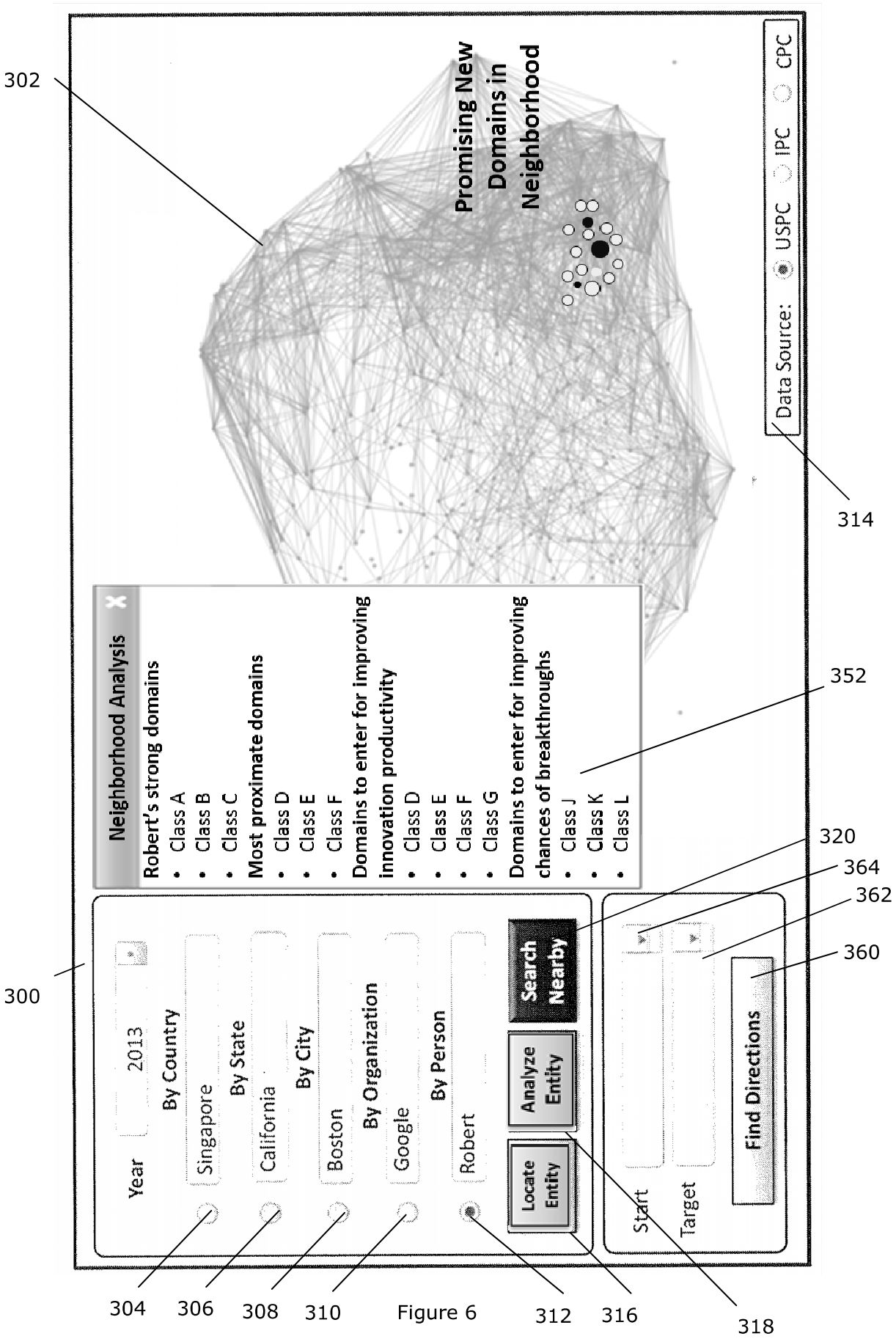

302
Promising New Domains in Neighborhood
Data Source: USPC IPC CPC
314
Neighborhood Analysis
Robert's strong domains
Class A
Class B
Class C
Most proximate domains
Class D
Class E
Class F
Domains to enter for improving innovation productivity
Class D
Class E
Class F
Class G
Domains to enter for improving chances of breakthroughs
Class J
Class K
Class L
352
300
Year
2013
By Country
Singapore
By State
California
By City
Boston
By Organization
Google
By Person
Robert
Locate Entity
Analyze Entity
Search Nearby
320
364
362
360
Start
Target
Find Directions
304
306
308
310
312
316
318

Figure 6

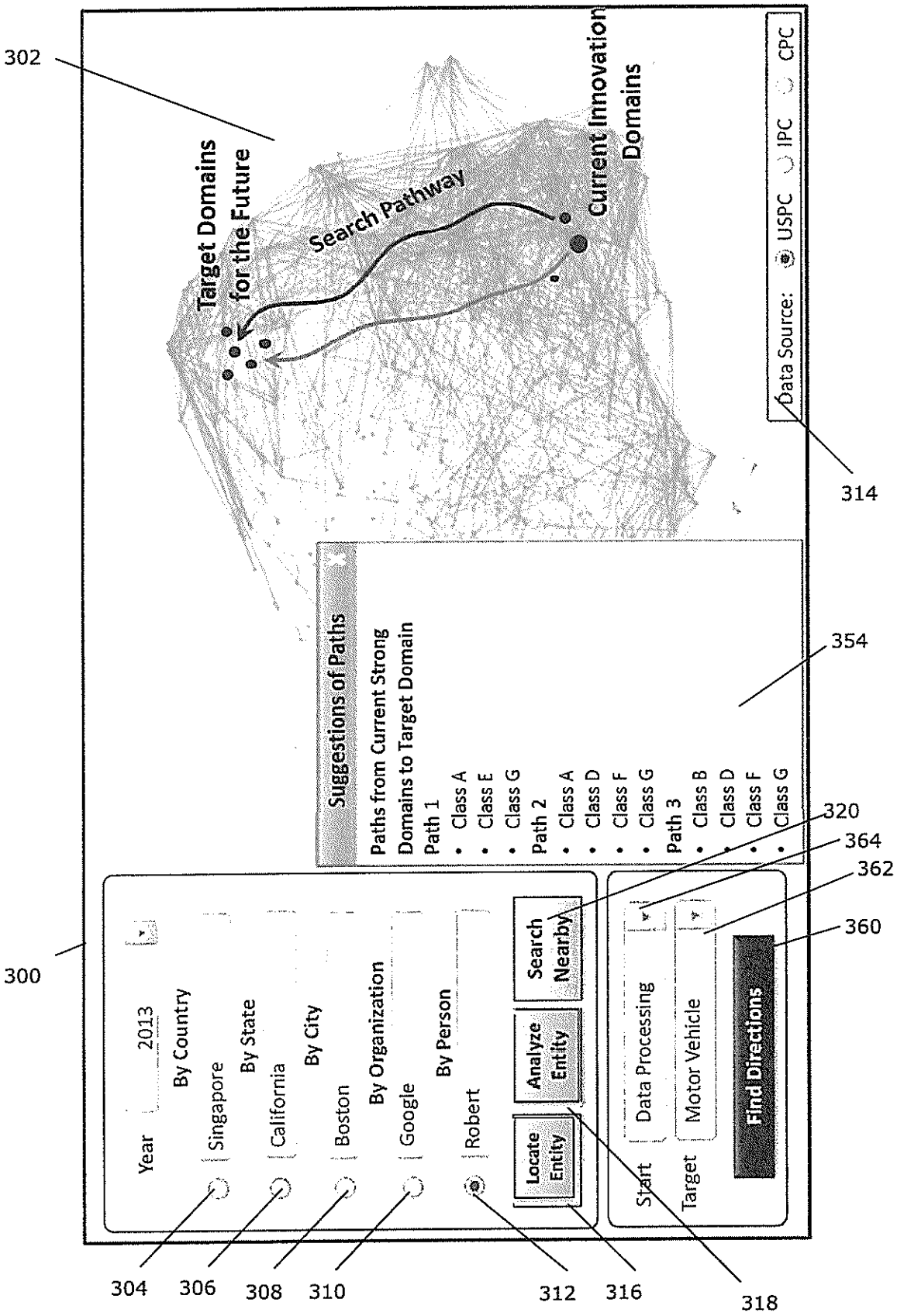

302
Target Domains for the Future
Search Pathway
Current Innovation Domains
Data Source: USPC IPC CPC
314
Suggestions of Paths
Paths from Current Strong Domains to Target Domain
Path 1
• Class A
• Class E
• Class G
Path 2
• Class A
• Class D
• Class F
• Class G
Path 3
• Class B
• Class D
• Class F
• Class G
354
320
364
362
360
300
Year 2013
By Country
Singapore
By State
California
By City
Boston
By Organization
Google
By Person
Robert
Locate Entity
Analyze Entity
Search Nearby
Start
Data Processing
Target
Motor Vehicle
Find Directions
304
306
308
310
312
316
318

Figure 7

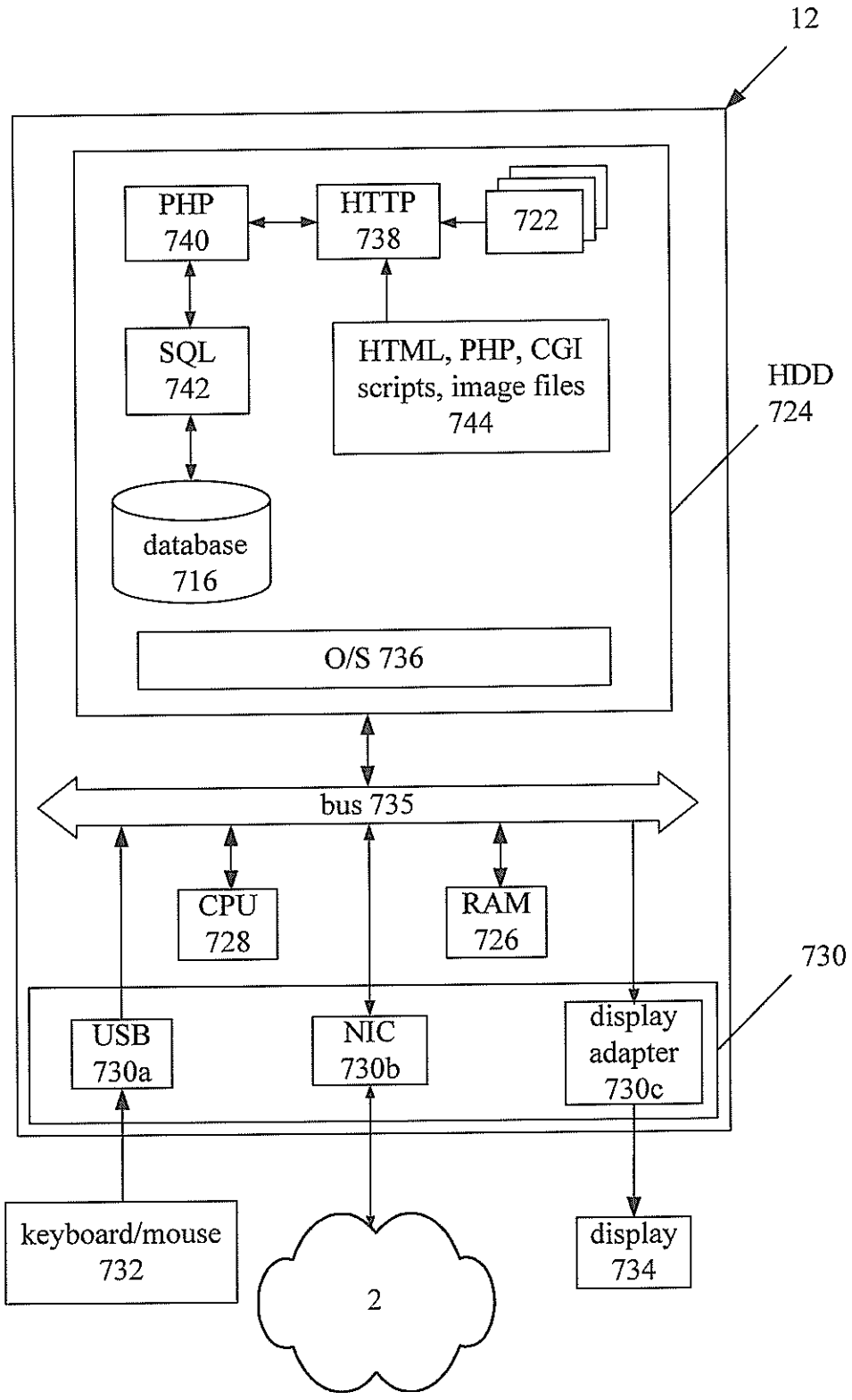

12
PHP
740
HTTP
738
722
SQL
742
HTML, PHP, CGI
scripts, image files
744
HDD
724
database
716
O/S 736
bus 735
CPU
728
RAM
726
730
USB
730a
NIC
730b
display
adapter
730c
keyboard/mouse
732
2
display
734

Figure 8